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COMPARATIVE CHARACTERISTICS OF DIFFUSION VACUUM PUMPS

DISTINCTIVE FEATURES OF VDP and VDP-JET DIFFUSION PUMPS



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The possibility of installing a thermal relay to protect the pump from overheating when the cooling water parameters are not appropriate



A wide range of vacuum baffles for installation on the inlet flange of the diffusion pump and reliable protection of the pumped volume from the backflow of working fluid vapors



The possibility of installing an enlarged oil reflector or an integrated baffle instead of a standard oil reflector cap



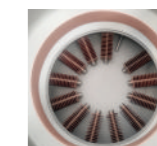
A trap built into the exhaust pipe to reduce the possibility of working fluid entering the forevacuum system



Power supply options:
- plug connector (direct connection)
- automatic control unit (switchboard) with automatic switches for each heating element



Easy control of the working fluid level by the sight glass. Easy draining/filling of the working fluid through ISO-KF flanges



VDP pumps. A large number of inexpensive standard heating elements provides increased reliability and stability of the pump. Replacement of failed heaters does not require draining of the working fluid



The possibility of installing a thermometer or thermal resistance to control the temperature of the working fluid and automate the technological process



VDP - JET pumps. The innovative design of the boiler in combination with a large number of inexpensive standard heating elements ensures increased reliability and stability of the pump



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COMPARISON OF DIFFUSION VACUUM PUMPS

Vacuummash develops and manufactures vacuum steam oil pumps, which provide maximum pumping speed, stability of operation and the highest exhaust pressure, in the same time minimizing the reverse flow of oil vapor.

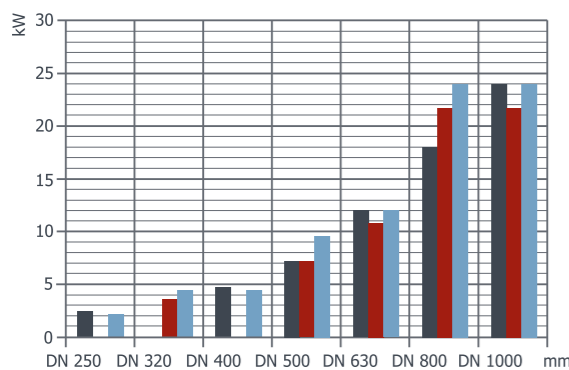


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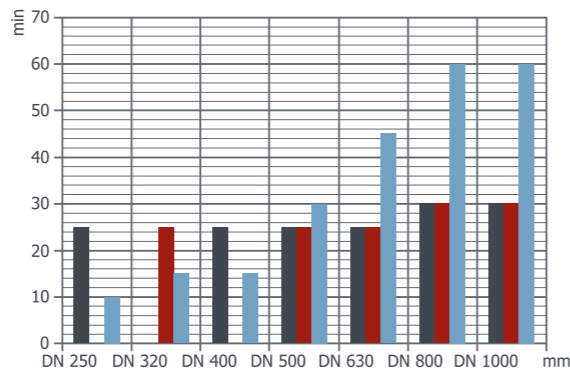
■ VDP ■ VDP - JET ■ Agilent - VHS/HS

Pump power



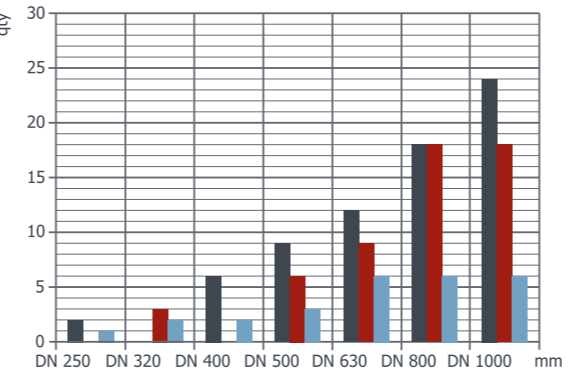
Vacuummash pumps provide pumping of large gas flows at minimal total cost to the customer

Warm-up time



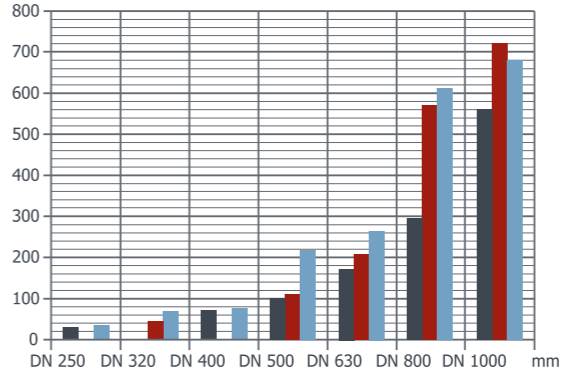
Low warm-up time allows the client to reduce downtime and optimize the working process

Number of heaters



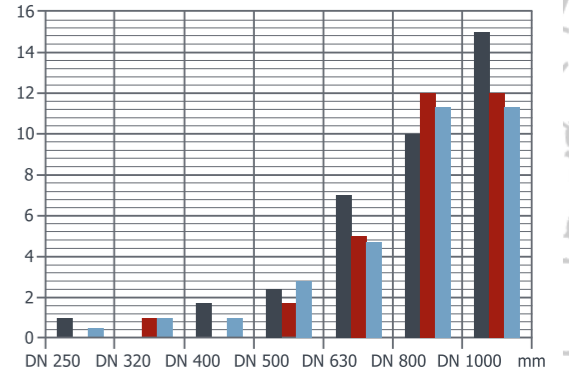
A large number of inexpensive heaters allows you to ensure stable operation of the pump even if several heaters fail

Weight of pump

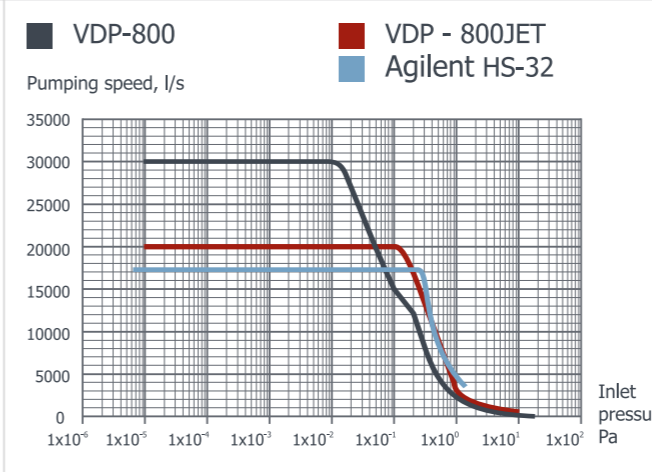
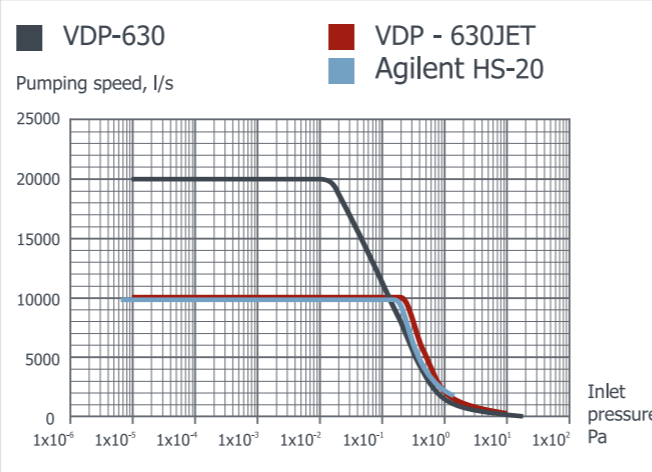
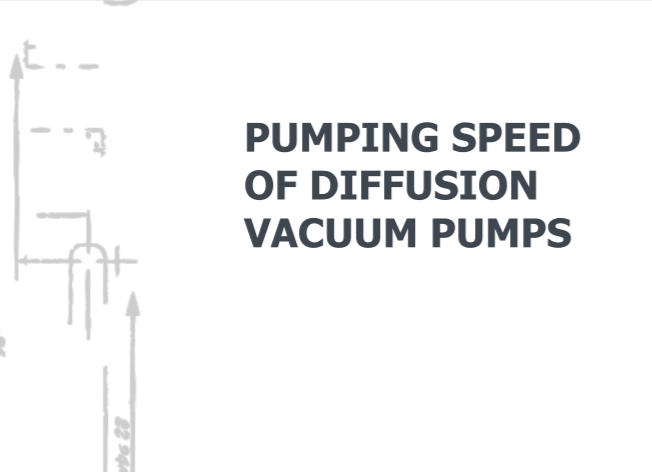
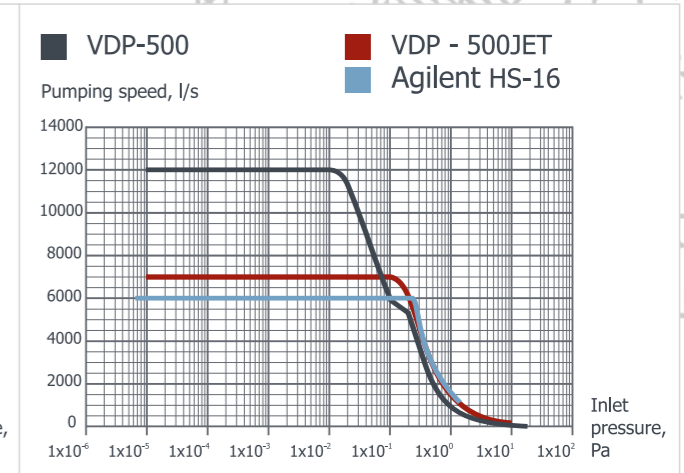
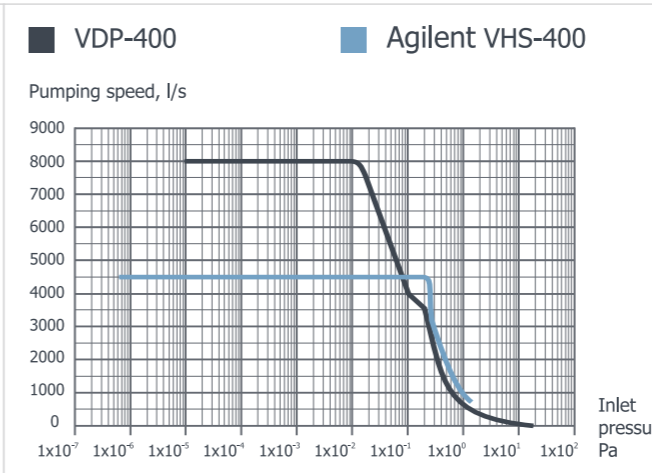
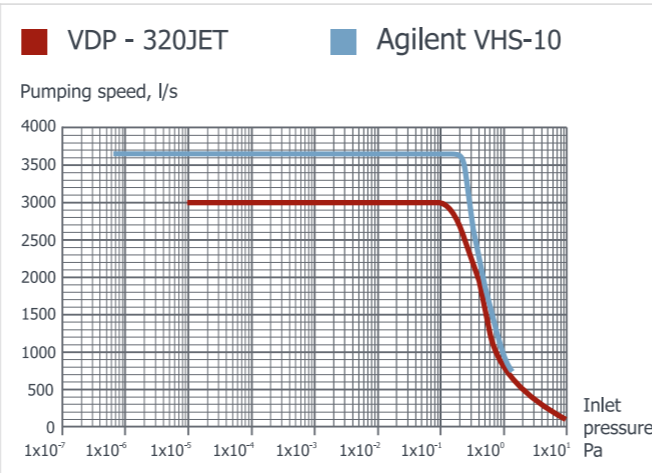
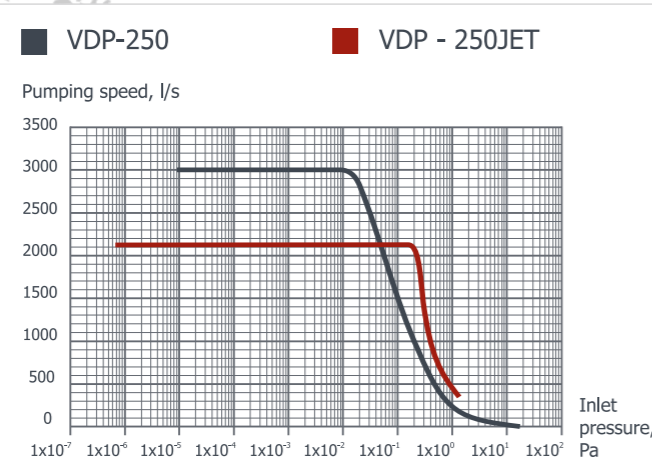


The dimensions of the VDP-Jet pumps completely match the dimensions of the Agilent - VHS/HS pumps. Replacing the pump does not require upgrading the rest of the vacuum system

Amount of working fluid



For the VDP line of pumps we recommend using mineral oil for diffusion pumps. For VDP-Jet pumps – silicone oil



PUMPING SPEED OF DIFFUSION VACUUM PUMPS